

BLOCK DATA MIGRATION

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ABSTRACT OF THE DISCLOSURE

Systems for managing responses to requests from a plurality of clients for access to a set of resources and for providing a storage area network (SAN) that more efficiently responds to client load changes by migrating data blocks while providing continuous data
10 access. In one embodiment, the systems comprise a plurality of equivalent servers wherein the set of resources is partitioned across this plurality of servers. Each equivalent server has a load monitor process that is capable of communicating with the other load monitor processes for generating a measure of the client load on the server system and the client load on each of the respective servers. The system further comprises a resource distribution
15 process that is responsive to the measured system load and is capable of repartitioning the set of resources to thereby redistribute the client load.